

**LISTING OF CLAIMS:**

The following listing of claims replaces all previous versions, and listings of claims in the present application.

1. (Original) A ceramic catalyst body comprising a ceramic carrier capable of supporting a catalyst directly on the surface of a substrate ceramic and a catalyst component supported by the ceramic carrier, wherein the quantity of catalyst supported by a unit volume of the carrier at the middle portion thereof where the gas stream is maximum is set to 1.1 times that of the periphery or larger.

2. (Currently amended) A ceramic catalyst body comprising a ceramic carrier capable of supporting a catalyst directly on the surface of a substrate ceramic, wherein the surface area per unit volume of the carrier at the middle portion thereof where the gas stream velocity is highest is set to 1.1 times that of the periphery or larger.

3. (Currently amended) The ceramic ~~carrier-catalyst~~ body according to claim 2, wherein the carrier is formed in a monolith, while the middle portion of the carrier is made to have a high cell density or in polygonal or circular cell form, and the peripheral portion of the carrier is made to have a low cell density or in rectangular, hexagonal or triangular cell form.

4. (Currently amended) The ceramic catalyst body according to claim 1, wherein, with the projection area of a gas inlet onto the ceramic carrier denoted as S, the middle portion of the carrier is identified as a region ~~which~~that has a cross sectional area in a range from 1.1 to 2 times the projection area S.

5. (Currently amended) A ceramic catalyst body comprising a ceramic carrier capable of supporting a catalyst directly on the surface of a substrate ceramic and a catalyst component supported by the ceramic carrier, wherein 50% by weight or more of the entire catalyst is concentrated in a region from the upstream end of the carrier to a point that is one quarter to one third of the entire length of the carrier from the upstream end of the carrier.

6. (Currently amended) A ceramic catalyst body comprising a ceramic carrier capable of supporting a catalyst directly on the surface of a substrate ceramic and a catalyst component supported by the ceramic carrier, wherein a catalyst having high heat resistance is disposed in the upstream ~~of the incoming gasend of the carrier~~, and a catalyst having low heat resistance is disposed in the downstream end of the carrier.

7. (Currently amended) The ceramic carrier according to claim 6, wherein the catalyst having ~~higher~~high heat resistance is a catalyst ~~of~~that shows an inlet temperature not higher than 300°C ~~with~~for a purification ratio of 50%, and the catalyst having ~~lower~~low heat resistance is a

catalyst ~~of that shows an~~ inlet temperature not ~~lower~~ ~~higher~~ than 350°C ~~with~~ ~~for~~ a purification ratio of 50%.

8. (Original) The ceramic catalyst body according to claim 1, wherein the cross sectional area of the ceramic carrier is larger than the cross sectional area of a gas inlet tube connected to the ceramic carrier.

9. (Currently amended) A ceramic catalyst body comprising a ceramic carrier capable of supporting a catalyst directly on the surface of a substrate ceramic and a catalyst component supported by the ceramic carrier, wherein the catalyst comprises particles ~~of a shape that~~that are shaped such that each has a larger surface area than a spherical or semi-spherical particles particle of the same weight.

10. (Currently amended) The ceramic catalyst body according to claim 9, wherein the shape of the catalyst particles is at least one of a polyhedron, a conical shape or cone missing a part thereof, a substantially spherical shape having surface irregularities or projections, a needle shape needles and a hollow particleparticle shape.

11. (Currently amended) A ceramic catalyst body comprising a ceramic carrier capable of supporting a catalyst directly on the surface of a substrate ceramic and a catalyst component supported by the ceramic carrier, wherein the catalyst is oriented in a plane ~~which has~~of high catalyst activity.

12. (Original) The ceramic catalyst body according to claim 9, wherein the catalyst is supported in the pores by impregnating the ceramic carrier with a catalyst solution and sintering.

13. (Original) The ceramic catalyst body according to claim 1, wherein one or more constituent elements of the ceramic substrate is substituted with an element other than the constituent element, and the ceramic carrier is capable of supporting the catalyst component directly on the substituting element.

14. (Original) The ceramic catalyst body according to claim 13, wherein the catalyst component is supported directly on the substituting element by chemical bond.

15. (Currently amended) The ceramic catalyst body according to claim 13, wherein the substituting element is one or more elements having a d or f ~~of~~ orbit in the electron orbits thereof.

16. (Original) The ceramic catalyst body according to claim 1, wherein the ceramic catalyst has a multitude of pores which are capable of directly supporting the catalyst on the

surface of the substrate ceramic so that the catalyst component can be supported directly in the pores.

17. (Original) The ceramic catalyst body according to claim 16, wherein the pores comprise at least one kind selected from among a group of defects in the ceramic crystal lattice, microscopic cracks in the ceramic surface and missing defect of the elements which constitute the ceramic.

18. (Original) The ceramic catalyst body according to claim 17, wherein the microscopic cracks are 100 nm or smaller in width.

19. (Original) The ceramic catalyst body according to claim 17, wherein the pores have diameter or width 1000 times the diameter of the catalyst ion to be supported or smaller, and the density of pores is  $1 \times 10^{11}/\text{L}$  or higher.

20. (Original) The ceramic catalyst body according to claim 17, wherein the substrate ceramic contains cordierite as the major component, and the pores are constituted from defects formed by substituting a part of the constituent elements of the cordierite with a metal element having a different value of valence.

21. (Currently amended) The ceramic catalyst body according to claim 20, wherein the defects comprise at least one kind, oxygen defect or lattice defect one of an oxygen defect or a lattice defect, and the density of a cordierite crystal of the cordierite, which includes at least one defect in a unit crystal lattice of the cordierite, is set to  $4 \times 10^{-6} \%$  or higher.